

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1 - 23. Cancelled.

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24. (Currently Amended) A process for preparing halogen-containing silanes of the general formula (I):



where

R is a substituted or unsubstituted C₁₋₁₀ alkyl or C₆₋₁₀ aryl radical of which one or more carbon atoms are optionally replaced by -CO-, -CO₂-, -O-, -S-, -SO-, -SO₂-, -NH- or -NR'-, where R' is a substituted or unsubstituted alkyl radical having from 1 to 20 carbon atoms,

X is fluorine, chlorine or bromine,

a is an integer of [[0,]] 1, 2 or 3,

b is an integer of 0, 1, 2 or 3, and

c is an integer of 1, 2, or 3 [[or 4]],

with the proviso that the sum of a + b + c = 4,

comprising reacting silicon, under the action of microwave energy, with elements or compounds selected from the group consisting of [[halogens;]] halogens and organohalogen compounds; ~~halogens and hydrogen; halogens and hydrogen halides;~~ organohalogen compounds; ~~organohalogen compounds and hydrogen;~~ organohalogen compounds and hydrogen halide; ~~hydrogen halides;~~ fluorosilanes and hydrogen; ~~fluorosilanes and hydrogen halide;~~ hydrogen-containing chlorosilanes and hydrogen; ~~hydrogen-containing chlorosilanes and hydrogen halides;~~ organohalosilanes and hydrogen; ~~organohalosilanes and hydrogen halides;~~ and hydrocarbons and hydrogen halides.

25. (Currently Amended) The process of claim 24, wherein silicon is contacted with halogen, a halogen an organohalogen compound, or mixture thereof in gaseous form and exposed to microwave energy.

26. (Previously Presented) The process of claim 24, wherein crystalline silicon is used.

27. (Previously Presented) The process of claim 24, wherein coarsely crystalline silicon is used.

28. (Previously Presented) The process of claim 24, wherein amorphous silicon is used.

29. (Previously Presented) The process of claim 28, wherein amorphous silicon is used in admixture with crystalline silicon.

30. (Previously Presented) The process of claim 24, further comprising employing a catalyst or promoter.

31. (Previously Presented) The process of claim 24, further comprising employing a substance which absorbs microwave energy and transfers thermal energy to silicon.

32. (Cancelled).

33. (Previously Presented) The process of claim 24, further comprising employing a metal or metal compound as a catalyst or promoter.

34. (Previously Presented) The process of claim 23, wherein said promoter comprises Cu.

11 1
35. (Previously Presented) The process of claim 24, wherein nonpulsed microwave energy is used.

12 1
36. (Previously Presented) The process of claim 24, wherein said silicon has a mean particle size of > 70 μm .

13 1
37. (Previously Presented) The process of claim 24, wherein said organohalogen compound comprises an alkyl halide or aryl halide.

14 1
38. (Previously Presented) The process of claim 24, wherein said organohalogen compound comprises methyl chloride.

15 1
39. (Previously Presented) The process of claim 24, wherein silicon is employed in the form of a silicon alloy.

16 15
40. (Previously Presented) The process of claim 39, wherein said silicon alloy is ferrosilicon.

41. - 51. (Cancelled)

17 1
52. (Previously Presented) The process of claim 24, wherein elemental silicon and one or more organohalogen compounds are contacted under microwave excitation with hydrogen, hydrogen halide, or hydrogen and hydrogen halide.

18 1
53. (Previously Presented) The process of claim 24, wherein the hydrocarbon is methane or ethane.

54. (Cancelled).

19
58. (Previously Presented) The process of claim 24, wherein the
silicon is free of catalysts.